Anales del Instituto de Biología Universidad Nacional Autónoma de México, Serie Zoología 71(1): 21-40. 2000

A checklist of the reptiles and amphibians of Guerrero, México

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Resumen. En la zona sur de México es alta la diversidad alta de anfibios y reptiles. El estado de Guerrero ocupa una parte considerable de esta área en la que se han registrado 231 taxa, de los cuales 48 (21%) son endémicos. La región fisiográfica de la Sierra Madre del Sur posee la mayor diversidad de anfibios y reptiles del estado. En la siguiente lista anotada se incluyen cinco nuevos registros estatales.

Palabras clave: herpetofauna, lista anotada, diversidad, riqueza regional, Sierra Madre del Sur, Guerrero, endemicidad.

Abstract. A great diversity of reptiles and amphibians exist in southern México. The state of Guerrero spans a large portion of this zone and has 231 taxa, 48 (21%) of which are endemic. Physiographically, the Sierra Madre del Sur contains the highest diversity of reptiles and amphibians. The following checklist of reptiles and amphibians of Guerrero include five new state records.

Key words: herpetofauna, checklist, diversity, regional richness, Sierra Madre del Sur, Guerrero, endemism.

The biological diversity of reptiles and amphibians in México, known and respected by the ancient American civilizations, is presently barely appreciated as a heritage to be known, handled and preserved. The herpetological fauna of México includes 1165 species and subspecies (Flores-Villela 1993a). They are mainly distributed in the inter-tropical zone to the southern zone of the country. Four states of this region (Oaxaca, Chiapas, Veracruz and Guerrero), are important because of their richness in vegetation and animal diversity. As for amphibians and reptiles, Oaxaca

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has 397 species (Casas-Andreu 1996), Chiapas 326 (Álvarez del Toro *et al.* 1993, Luna-Reyes 1997), and Veracruz 293 species (Pelcastre-Villafuerte & Flores-Villela 1992); Guerrero has been reported to have 168 forms (Smith & Taylor 1966).

Reliable faunal records for different communities are lacking, and more importantly, good checklists of the habitats in two great zoogeographical regions, the Nearctic and the Neotropical, are needed. Both regions occur in Guerrero, ranked fourth in the country in terms of herpetological diversity (Smith & Taylor 1966).

Guerrero has no elevations higher than 4000 m above sea level. It consists of broad plains and lowlands with soils types and ecosystems that include extreme environmental conditions. The environmental heterogeneity is a remarkable feature, even if cold or very wet desertic conditions are not predominant. Each area has its own particular association of fauna and vegetation that exemplify the biological diversity of México.

Studies of reptiles and amphibians in Guerrero have gone through several stages. Bonnaterre (1789) described *Bipes canaliculatus* in the first scientific investigation of the state's vertebrates, (in México, *Iguana iguana* in 1758 by Linnaeus was earlier). This important taxonomic stage ends with the work of Smith & Taylor (1966) where the total number of species and subspecies and their general geographic distribution in the state was established.

Among the early herpetological works of the state that incorporate taxonomic matters and that focus on ecological and distributional aspects are: Gadow (1905), with a general view and Davis & Dixon (1959, 1961, and 1964), which included the reptiles and amphibians from the vicinity of Chilpancingo.

Since then and to the present, there have been relevant and valuable herpetological contributions in the fields of systematics, ecology, and biogeography; for instance Adler (1965), Adler & Dennis (1972), Snyder (1972), Smith & Savitzky (1974), Myers & Campbell (1981), Papenfuss, Wake & Adler (1983), Savage (1984), Hillis, Frost & Webb (1984), Sánchez & López-Forment (1987), Pérez-Ramos & Saldaña de la Riva (1989), Saldaña de la Riva & Pérez-Ramos (1989), Campbell & Frost (1993), Mendelson & Campbell (1994), Mendelson & Toal (1996), Adler (1996), Hanken et al. (in press), and Pérez-Ramos, Saldaña de la Riva & Campbell (in press). Other papers emphasize collections at several localities, such as Porter (1963), Smith & Smith (1977, 1979), Flores-Villela & Hernández-García (1989), Flores-Villela & Muñoz-Alonso (1993), and Köhler (1995).

Other recent works have dealt with the comprehensive study of the herpetofauna of Guerrero, Omiltemi and Taxco areas: Saldaña de la Riva & Pérez-Ramos (1987); Muñoz-Alonso (1988) and Hernández-García (1989), respectively.

Other studies have provided information on the distribution of some species. These include Taylor (1933a, 1933b, 1936a, 1936b, and 1937); Shannon (1951); Holman (1964); Liner & Dundee (1969), and Duellman (1960).

The present study attempts to answer the following questions: Which and how many species and subspecies of reptiles and amphibians are found in Guerrero?, which of these are endemic to the state?, and which is the region with the greatest

diversity of amphibians and reptiles? We also aim to provide a thorough review of the herpetological richness of the state.

Study area

The state of Guerrero is located in southern México between 16° 19' N to 18° 52' N and 98° 02' W to 102° 12' W (Fig. 1). It is bordered by the Trans-Mexican Volcanic Belt (TMVB) to the north. It includes the northwestern part of the Sierra Madre del Sur (SMS), most of the basin of the Río Balsas (RBB), and a portion of the Pacific Coastal Plain (PCP). It has a total area of 63675 km² (García & Falcón 1979; Figueroade Contin 1980). According to Rzedowski (1978), the vegetation in the state includes the following primary associations: tropical deciduos forest, arid tropical scrub, and thorn forest, coniferous forest (part), and pine and/or oak forest; cloud forest, savannah and mangroves.

There are six soil types in the state: inceptisol, ultisol, alfisol, vertisol, mollisol, and entisol (Figueroa-de Contin 1980). Hydrographycally, the Balsas river serves as the axis for tributaries towards the Pacific ocean. Most of the rivers of the southern flank of the SMS contribute to the formation of large lagoons such as Potosí, Nuxco, del Tular, Mitla, Coyuca, Tres Palos, Tecomate, and Chautengo. Two important lakes, Tuxpan and Tixtla, are found in Guerrero (García & Falcón 1979).

The state has an heterogeneous environment, with miscellaneous climatic conditions. The common factor in the great diversity of climates in the state is the summer rainy season (June, July, August, and September). The general climate of Guerrero is warm with an annual mean high temperature of 22°C. On the mountains the lowest temperatures recorded during the colder months reach values below 18°C. Humidity varies between 600-2500 mm annual total precipitation (Dirección de Estudios del Territorio Nacional 1970; Secretaría de Programación y Presupuesto 1981; García 1981).

Methodology

During the 1974-1981 period, 86 localities in Guerrero were visited (Appendix 1). The localities were selected according to their location and environmental characteristics. An important criterium for their selection was to choose remote or barely collected sites of amphibians and reptiles from every physiographic region of the state. Climatic conditions for each locality were recorded from the literature. The distance of the sites to paved roads, towns and populated areas was also recorded (Fig. 1).

Field work consisted of 10 to 15 days trips. Three to four localities per trip were visited with a maximum stay of four days but no less than two days at each locality. The collecting period was mostly during the daytime, although nightime collecting

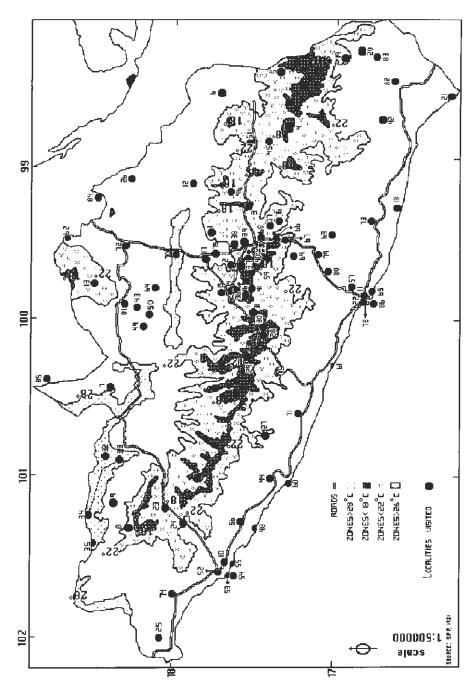


Fig. 1. Localities sampled in Guerrero (for numbers see Appendix 1).

was also carried out. The procedures of collection such as capture and preservation followed suggestions by Knudsen (1972), Pisani & Villa (1974), and Gaviño de la Torre, Juárez & Figueroa (1980). The following data were recorded for each specimen: sample number, date, locality, sex, body and tail lengths, weight, collection time, altitude, habitat and microhabitat at point of capture. The specimens were identified to species-subspecies following Davis (1954), Zweifel (1954), Duellman (1970), Duellman & Wellman (1960), Duellman & Zweifel (1962), Dixon (1964), Smith & Taylor (1966), Lynch (1968, 1970a and 1970b), Smith (1972), Smith & Smith (1977, 1979), Campbell & Lamar (1989), Williams (1994), and Rossman, Ford & Seigel (1996).

Checklist of the herpetological fauna

In addition to the specimens collected in the late 1970's, this checklist includes other specimens donated to the authors, plus a thorough search of specimens already present in national collections such as the Colección Herpetológica Nacional of the Instituto de Biología (IBH), Universidad Nacional Autónoma de México (UNAM); the collection of the Museo de Zoología "Alfonso L. Herrera" (MZFC), Facultad de Ciencias, UNAM; the collection of the Escuela Nacional de Ciencias Biológicas of the Instituto Politécnico Nacional (IPN); and the Dirección General de Fauna Silvestre of the Secretaría de Agricultura y Recursos Hidráulicos (SARH), recently integrated to the collection of the Instituto de Biología, UNAM. It is important to mention that the literature review covers to 1996, and some recent publications that add new state records are included in the list.

Due to the ambiguity of the nomenclature and related problems when dealing with Ambystoma, Syrrhophus, Tomodactylus, Anolis, Enyaliosaurus, Sibon, Tropidodipsas, Ophryacus, and Porthidium, identification of these amphibians and reptiles was carried out in a conservative manner. In most cases, scientific names, followed by the author's name and the year of original description were written following Smith & Smith (1993), but in some specific cases we followed Flores-Villela (1993b), and Duellman (1993). As to the synonymy of the species and subspecies treated here, we refer to Smith & Smith (1993). Likewise, the specific and subspecific names are sorted in alphabetic order, while the supraspecific taxa are arranged in phylogenetic order (Goin, Goin & Zug 1978; Flores-Villela 1993b).

Results

Richness of the herpetofauna

The herpetological fauna known from Guerrero has increased 27% since the 168 forms recorded by Smith & Taylor (1966). Because of explorations to regions poorly known, the bibliographic review has been updated to include taxonomic and systematic studies on several groups of amphibians and reptiles.

Presently, eight groups of amphibians and reptiles occur in Guerrero. There are 231 species and subspecies in the state, representing 20% of the total Mexican

herpetofauna. Seventy taxa are amphibians and 161 taxa are reptiles (Table 2). The herpetofauna of Guerrero includes 70% of the existing families of amphibians and reptiles in México. Together with the other three herpetofauna rich states of México (Chiapas, Oaxaca and Veracruz), it exceeds that of other Mexican or North American regions.

Representativeness of the herpetofauna

The amphibians and reptiles of Guerrero are not equally represented (Table 1). Of the eight groups of amphibians and reptiles, three contribute with ca. 90% of forms (frogs and toads, lizards and snakes; 24%, 29%, 36% respectively), while the five remaining groups contribute only 0.4 to 5.6% of the herpetofauna (Table 1).

Lizards and snakes (Squamata) are the most diverse groups, representing 93% of the total of Reptilia. The most conspicuous and diverse families are the snakes Leptotyphlopidae, Typhlopidae, Loxocemidae, Boidae, Colubridae, Elapidae and Viperidae, with 83 forms representing 51.5% of the reptiles. The lizard families Eublepharidae, Gekkonidae, Xantusiidae, Corytophanidae, Iguanidae, Polychrotidae, Phrynosomatidae, Anguinidae, Xenosauridae, Helodermatidae, Scincidae, and Teiidae have 67 forms, representing 41.6% of the reptiles; the rest correspond to three groups (turtles, amphisbaenians and crocodilians).

Table 1. Composition of the herpetofauna of Guerrero

Orders	Suborders	Families	Genera	Species	Subspecies	Total
Gymnophiona		1	1	1	-	1
Caudata		2	4	11	2	13
Salientia		8	19	49	7	56
Total of						
amphibians	-	11	24	61	9	70
Testudines						
Cryptodira	1	5	7	2	6	8
Squamata						
Amphisbaenia	1	1	1	2		2
Sauria	1	12	23	36	31	67
Serpentes	1	7	48	34	49	83
Crocodylia		1	1	1	-	1
Total of						
reptiles	4	26	80	75	86	161
Herpetofauna	4	37	104	136	95	231

Toads and frogs (Salientia), include 80% of the total of Amphibia; axolotls and salamanders (Caudata) contribute 19%, and the rest correspond to caecilians (Gymnophiona), represented only by *Dermophis oaxacae*. Here are included the families Rhinophrynidae, Microhylidae, Pelobatidae, Ranidae, Bufonidae, Centrolenidae, Hylidae, and Leptodactylidae with 56 forms representing 24% of the total.

Eight families of amphibians and reptiles stand out in the state by their diversity and relative abundance: Plethodontidae, Hylidae, Leptodactylidae, Polychrotidae, Phrynosomatidae, Teiidae, Colubridae, and Elapidae. Among them, the most important genera are Pseudoeurycea, Hyla, Eleutherodactylus, Anolis, Sceloporus, Cnemidophorus, Leptodeira, Salvadora, Tantilla, Thamnophis, and Micrurus.

Several new state records are here recorded, including: *Sceloporus m. melanorhinus*, *Cnemidophorus c. communis*, *C. lineatissimus lividus*, and *Leptotyphlops humilis*. Three specimens of a potentially new species of salamander were captured and are considered as *Pseudoeurycea sp.* (Pérez-Ramos and Saldaña de la Riva, unpublished).

Endemic herpetofauna

Forty-eight forms of amphibians and reptiles are presently known to be endemic to the state. These forms represent 21% of the herpetofauna of Guerrero. Reptiles comprise more than half of all endemics (25 forms; 52%); families Polychrotidae and Colubridae contribute six forms each. There are 23 forms of amphibians (48%). Families Plethodontidae and Leptodactylidae contribute ten and five forms, respectively (with an asterisk in the check-list). Adler (1996) and Hanken *et al.* (in press), emphasize the recent richness of plethodontid salamanders found in Guerrero.

Regional herpetological richness

Every physiographic region of Guerrero has its own herpetological fauna. The most diverse is the Sierra Madre del Sur (SMS) where 151 amphibian and reptilian taxa, representing 65% of the total herpetological forms of Guerrero occur. Most taxa are endemics; 69% (33 forms) of the endemics are found in the mountain zone, which may be indicative of speciation processes enhanced by the ecological-geographical isolation. The cause of this herpetofaunistical diversity in Guerrero has not been investigated thoroughly. Bojorquez et al. (1995) and Saldaña de la Riva & Pérez-Ramos (1989) had suggested, respectively, that the environmental variables and variety of habitats or climatic conditions, elevation and vegetation types probably contribute to the richness. For the moment, particularly to (SMS), we are adding that the most direct mechanism may be the unique set of physiographic features of the SMS in Guerrero, too. It is a range of mountains parallel to the Trans-Mexican Volcanic Belt that run along the coast of the Pacific ocean to influence drastically the distribution of the herpetofauna. The SMS is characterized by a rugged and sharp topography with a large number of isolated canyons ("barrancas"), where elevation changes from 1000 to 3700 m are common, producing a heterogeneous environment (temperature, precipitation and moisture variation) that allows development of different communities such as tropical deciduous, oak, pine-oak, coniferous and cloud forests, in addition to the slope-effect. However, the set of ecological conditions related to the amphibians and reptiles need to be reinterpreted with field data to produce a better understanding of the biogeography of these vertebrates in this geographically strategic area of México.

The knowledge on protection and conservation of the amphibians and reptiles of Guerrero is deficient. Immediate action is required to conduct field and experi-

mental works on the biology of this vertebrates; so far, less than 50% of the total herpetofauna of the state has some status of protection and conservation.

As stated before, the diversity of amphibians and reptiles in Guerrero is high, but new species and subspecies can still be found. Regions that remain unstudied are the eastern and western zones of the Taxco ranges, both the upper and lower basins of the Balsas; the mountain regions, both the western and eastern parts of the Sierra Madre del Sur, and the Costa Grande and the Costa Chica regions.

Checklist of amphibians and reptiles of Guerrero

CLASS AMPHIBIA

Order GYMNOPHIONA Family CAECILIIDAE Dermophis oaxacae (Mertens) 1930³ UC

Order CAUDATA
Family AMBYSTOMATIDAE
Ambystoma rivulare (Taylor) 1940³ E

Ambystoma rivulare (Taylor) 1940' E Family PLETHODONTIDAE

Bolitoglossa hermosa Papenfuss, Wake& Adler 1983^{3,1} UC Pseudoeurycea ahuitzotl Adler 1996^{3,4}

P. belli belli (Gray) 18502.3 E

P. cephalica cephalica (Cope) 18653 E

P. mixcoatl Adler 19963.4

Pseudoeurycea sp. "P.Aguila" Pérez-Ramos, Saldaña de la Riva (unpublished)

P. tenchalli Adler 19963,4

P. teotepec Adler 19963,4

P. tlahcuiloh Adler 19963,4

Thorius grandis Hanken, Wake & Freeman (in press)

T. infernalis Hanken, Wake & Freeman (in press)

T. omiltemi Hanken, Wake & Freeman (in press)

Order SALIENTIA
Family RHINOPHRYNIDAE
Rhinophrynus dorsalis Duméril & Bibron 1841^{1,2,3} UC

Family MICROHYLIDAE Gastrophryne usta (Cope) 1866^{1,2,3} UC Hypopachus variolosus (Cope) 1866^{2,5}

Family PELOBATIDAE
Spea multiplicata Cope 1863^{1,2,3}

Family RANIDAE Rana berlandieri Baird 1854³ SC R. forreri Boulenger 1883^{1,2,3} UC

R. omiltemana Günther 19002.3.4 T

R. sierramadrensis Taylor 193913 UC

R. zweifeli Hillis, Frost & Webb, 1984^{1,2,3}

Rana sp. form "Arcelia" Hillis, Frost & Wright 1983*

Rana sp. form "Papagayo" Hillis, Frost & Wright 19833

Family BUFONIDAE

Bufo cycladen Lynch & Smith 19661,2,3

B. gemmifer Taylor 19391.2.3.4 UC

B. marinus (Linnaeus) 17581.2.3

B. marmoreus Wiegmann 18331,2,3

B. occidentalis Camerano 18791,2.3

B. perplexus Taylor 19431,2,3

Family CENTROLENIDAE

Hyalinobatrachium fleischmanni (Boettger) 1893³

Family HYLIDAE

Agalychnis moreleti (Duméril) 18533

Hyla arboricola Taylor 19411,2,3,4

H. arenicolor Cope 1866^{1,2,3}

H. bistincta Cope 1877^{2,3} UC

H. chryses Adler 19651.5.4 UC

H. eximia Baird 1854^{2,3}

H. juanitae Snyder 19723 E

H. melanomma melanomma Taylor 19401.3 UC

H. mykter Adler & Dennis 197234 E

H. pentheter Adler 19653

H. pinorum Taylor 19372.3 UC

H. sartori Smith 19511.3 E

H. smithi Boulenger 19021,2,3

H. sumichrasti (Brocchi) 18793

H. trux Adler & Dennis 19723.4 E

Pachymedusa dacnicolor (Cope) 1864^{1,2,3}

Phrynohyas venulosa Laurenti 17683

Ptychohyla erythromma (Taylor) 19373 UC

P. leonhardschultzei (Ahl) 19343

Scinax staufferi staufferi (Cope) 18651,2,3

Smilisca baudini (Duméril & Bibron) 18411,2,3

Triprion spatulatus reticulatus (Taylor) 1942^{1,2,3}

Family LEPTODACTY'LIDAE

Eleutherodactylus augusti cactorum Taylor 19381.3

E. guerreroensis Lynch 19671.2.3.4 UC

E. hobartsmithi (Taylor) 19363

E. mexicanus (Brocchi) 18791.3

E. omiltemanus (Günther) 19001,3,4 UC

E. pygmaeus Taylor, 19361.2.3

E. rugulosus (Cope) 18691.2.3

E. saltator Taylor 19411.2.3 UC

E. uno Savage 19843,4 UC

Leptodactylus labialis (Cope) 1877³

L. melanonotus (Hallowell) 18601.2.3

Syrrhophus pipilans pipilans Taylor 1940^{1,2,8}

Tomodactylus albolabris Taylor 19431,2.3.4 UC

T. dilatus (Davis & Dixon) 19551.3.4

T. nitidus nitidus (Peters) 1869^{1,3}

T. nitidus petersi (Duellman) 1954^{1,3}

CLASS REPTILIA

Order TESTUDINES Suborder CRYPTODIRA Family BATAGURIDAE Rhinoclemmys pulcherrima pulcherrima (Gray) 1855^{1,2,3} E R. rubida perixantha (Mosimann & Rabb) 1953^{1,3} UC

Family EMYDIDAE Trachemys scripta ornata (Gray) 1831^{1,3} SC

Family KINOSTERNIDAE

Kinosternon integrum (LeConte) 1854^{1,2,3} SC

Family CHELONIIDAE Chelonia mydas agassizi Bocourt 1868^{1,2} T Eretmochelys imbricata bissa (Ruppell) 1835³ T Lepidochelys olivacea (Eschscholtz) 1829^{1,2,3} T

Family DERMOCHELYIDAE Dermochelys coriacea angusta (Philippi) 1899^s T

Order SQUAMATA Suborder AMPHISBAENIA Family AMPHISBAENIDAE Bipes canaliculatus Bonnaterre 1789^{1,2,3} UC B. tridactylus (Dugès) 1894^{1,3,4} UC

Suborder SAURIA Family EUBLEPHARIDAE Coleonyx elegans nemoralis Klauber 1945^{9,3} E

Family GEKKONIDAE Hemidactylus frenatus Schlegel 1836^{1,2,3} Phyllodactylus bordai Taylor 1942^{1,3} UC P. delcampoi Mosauer 1936^{3,4} UC P. lanei lanei Smith 1935^{1,2,3}
P. tuberculosus magnus Taylor 1942^{1,2,3}

Family XANTUSIIDAE

Lepidophyma smithi Bocourt 1876^{1,2,3} UC

Family CORYTOPHANIDAE

Basiliscus vittatus Wiegmann 1828^{1,2,3}

Family IGUANIDAE Ctenosaura pectinata (Wiegmann) 1834^{1,2,3} E Enyaliosaurus clarki (Bailey) 1928^{1,2,3} E Iguana iguana (Linnaeus) 1758^{2,3} SC

Family POLYCHROTIDAE

Anolis dunni Smith 19361,2,3 UC

- A. gadovi Boulenger 19053.4 UC
- A. liogaster Boulenger 1905^{1,2,3,4} UC
- A. megapholidotus Smith 19331,2,3,4 UC
- A. microlepidotus Davis 1954^{1,2,3} UC
- A. nebulosus (Wiegmann) 1834^{1,2,3}
- A. omiltemanus Davis 1954^{1,3,4} UC
- A. subocularis Davis 1954^{1,2,3,4} UC
- A. taylori Smith & Spieler 19451.2.3.4 UC

Family PHRYNOSOMATIDAE

Phrynosoma asio Cope 1864^{1,2,3} UC

- P. taurus Dugès 18688 E
- P. orbiculare (Linnaeus) 17892.3 T

Sceloporus adleri Smith & Savitzky 19741,2,3,4 UC

- S. aeneus aeneus Wiegmann 1828s
- S. asper Boulenger 18973 UC
- S. formosus scitulus Smith 19421,2,3,4
- S. gadovae Boulenger 19051.2.3
- S. grammicus grammicus Wiegmann 1828^{1,2,3} UC
- S. horridus horridus Wiegmann 1834^{1,2,3}
- S. horridus oligoporus Cope 1864^{1,2,3}
- S. melanorhinus calligaster Smith 1942^{1,2,3}
- S. melanorhinus melanorhinus Bocourt 18761.5
- S. mucronatus omiltemanus Günther 18901.2.3
- S. ochoterenae Smith 19341,2,3
- S. palaciosi Lara-Góngora 1983⁸
- S. pyrocephalus Cope 1864^{1,2,3}
- S. siniferus siniferus Cope 18691.2.3
- S. spinosus caeruleopunctatus Smith 19383
- S. stejnegeri Smith 1942134 UC
- S. utiformis Cope 1864^{1,3}

Urosaurus bicarinatus anonymorphus (Mittleman) 19401.2.3

U. bicarinatus bicarinatus (Duméril) 1856^{1,2,3} U. gadovi (Schmidt) 1921^{1,2,3}

Family ANGUINIDAE

Abronia deppei (Wiegmann) 1828³ UC

A. mixteca Bogert & Porter 1967^{2,3} UC

Abronia sp. "Guerrero" Flores-Villela & Sánchez 1993^{1,2,3,4}

Gerrhonotus liocephalus liocephalus Wiegmann 1828^{2,3} UC

Mesaspis gadovi gadovi (Boulenger) 1913^{1,2,3,1} UC

Family XENOSAURIDAE

Xenosaurus penai^{1,2} Pérez-Ramos, Saldaña-de la Riva& Campbell (in press)

Family HELODERMATIDAE

Heloderma horridum horridum (Wiegmann), 18291.2.3 E

Family SCINCIDAE

Eumeces brevirostris brevirostris (Günther) 1860^{1,2,3} E. brevirostris indubitus Taylor 1933^{1,2,3} E. ochoterenae Taylor 1933^{2,3,4} UC Mabuya unimarginata Cope 1862^{1,2,3} Sphenomorphus assatus taylori (Oliver) 1937^{1,3}

Family TEIIDAE

Ameiva undulata dextra Smith & Laufe 1946^{1,2,3} Cnemidophorus calidipes Duellman 1955^{1,2,3} UC

- C. communis communis Cope 18771.2.5 UC
- C. costatus costatus Cope 1877^{1,2,3}
- C. costatus zweifeli Duellman 19601,2,3
- C. deppei deppei Wiegmann 1834^{1,2,3}
- C. deppei infernalis Duellman & Wellman 19601.2.3
- C. guttatus immutabilis Cope 1877^{1,2,3}
- C. lineattissimus lividus Duellman & Wellman 1960^{1,5} UC
- C. sacki gigas Davis & Smith 19521.2.3
- C. sacki sacki Wiegmann 1834^{2.3}

Suborder SERPENTES

Family LEPTOTYPHLOPIDAE

Leptotyphlops goudoti bakewelli Oliver 19371.2.3

L. maximus Loveridge 19321.3

L. humilis (Baird & Girard) 18531.5

Family TYPHLOPIDAE

Ramphotyphlops braminus (Daudin) 18031.2.3

Family LOXOCEMIDAE

Loxocemus bicolor Cope 1861^{1,2,3} UC

Family BOIDAE

Boa constrictor imperator (Daudin) 18031.2.3 E

Family COLUBRIDAE

Clelia clelia clelia (Daudin) 18033

Coniophanes fissidens dispersus Smith 19413

C. lateritius melanocephalus Peters 18693

C. piceivittis taylori Hall 1951^{1,3,4}

Conophis vittatus viduus Cope 18763

C. vittatus vittatus Peters 18601,2,3

Conopsis biserialis Taylor & Smith 194223 E

Dryadophis melanolomus slevini (Stuart) 19333

D. melanolomus stuarti Smith 19433

Drymarchon corais melanurus (Duméril, Bibron & Duméril) 18541

D. corais rubidus Smith 19411.2.3

Drymobius margaritiferus fistulosus Smith 19421.2.3

Enulius flavitorques unicolor (Fischer) 18823

Ficimia publia Cope 18663

F. ruspator Smith & Taylor 194134 UC

Geophis omiltemanus Günther 18933.4 UC

G. sieboldi (Jan) 18623 UC

Hypsiglena torquata torquata (Günther) 18603 UC

Imantodes gemmistratus gracillimus (Günther) 18951.3 UC

I. gemmistratus latistratus (Cope) 18871.3 UC

Lampropeltis triangulum conanti Williams 19781.2.3 E

Leptodeira annulata cussiliris Duellman 19581.2.3 UC

L. maculata (Hallowell) 18601.3 UC

L. nigrofasciata mystacina Cope 1869^{1,2,3}

L. septentrionalis polysticta Günther 18951.3

L. splendida bressoni Taylor 19381.3

Leptophis ahaetulla praestans (Cope) 18681.3 E

L. diplotropis diplotropis (Günther) 18721.2.3 E

Manolepis putnami (Jan) 18631,2,3

Masticophis mentovarius striolatus (Mertens) 19341.2.3

Oxybelis aeneus (Wagler) 18241.2.3

O. fulgidus (Daudin) 18032.3

Pituophis lineaticollis lineaticollis (Cope) 1861^{1,2,3}

Pseudoficimia frontalis (Cope) 18641.3

Pseudoleptodeira latifasciata (Günther) 18943 UC

Rhadinaea hesperia hesperia Bailey 19401.2.3

R. omiltemana (Günther) 1894^{1,2,3,4} UC

R. taeniata aemula Bailey 19401.2.3

Rhadinophanes monticola Myers & Campbell 19813.4 UC

Salvadora bairdi Jan 18602,3 UC

- S. intermedia Hartweg 19403 UC
- S. lemniscata (Cope) 18903 UC
- S. mexicana (Duméril, Bibron & Duméril) 1854^{1,2,3} UC

Senticolis triaspis intermedia (Boettger) 18831.3

Sibon nebulata nebulata Linnaeus 17583

Sonora michoacanensis michoacanensis (Dugès) 18842.3

Stenorrhina freminvillei Duméril, Bibron & Duméril 18541.2.3

Storeria storerioides (Cope) 186513

Tantilla bocourti bocourti (Günther) 18953

T. calamarina Cope 18661.2.3

T. coronadoi Hartweg 19443.4 UC

T. deppei (Bocourt) 18833 E

Thamnophis chrysocephalus (Cope) 18841,2,3 E

T. cyrtopsis collaris (Jan) 18633 E.

T. eques eques (Reuss) 18341,3 E

T. godmani (Günther) 18941.2.3 E

T. proximus rutiloris (Cope) 18853 E

T. validus isabelleae (Conant) 19531.2.3

Toluca conica Taylor & Smith 19421,2.3

Trimorphodon biscutatus biscutatus (Duméril, Bibron & Duméril) 1854^{1,2,3}

T. tau latifascia Peters 18691.2.3

Tropidodipsas annulifera Boulenger 18943 UC

T. fasciata guerreroensis Taylor 1939^s

T. zweifeli Liner and Wilson 19703 UC

Xenodon rabdocephalus mexicanus Smith 1940³

Family ELAPIDAE

Micrurus broumi broumi Schmidt & Smith 19431.2.3 UC

M. browni taylori Schmidt & Smith 19431.2.5.1 UC

M. distans michoacanensis (Dugés) 18913 UC

M. laticollaris laticollaris (Peters) 18691,3 UC

Pelamis platurus (Linnaeus) 17661,2,3

Family VIPERIDAE

Agkistrodon bilineatus bilineatus (Günther) 1863^{2,3} UC

Crotalus durissus culminatus Klauber 19361.5 SC

C. intermedius omiltemanus Günther 18951.3.4 E

C. triseriatus triseriatus (Wagler) 1830³

Ophryacus undulatus (Jan) 18593 SC

Porthidium barbouri (Dunu) 19191,3,4 UC

Sistrurus ravus exiguus Campbell & Armstrong 19793.4 SC

Order CROCODYLIA

Family CROCODYLIDAE

Crocodylus acutus (Cuvier) 18075 UC

1: collected by the authors, 2: listed in catalog of herpetological collections, 3: record found in the literature, 4: endemic taxa, and 5: new record provided by the authors

(E) endangered, (T) Threatened, (SC) special concern, and (UC) uncommon (Secretaría del Medio Ambiente, Recursos Naturales y Pesca 1995).

Acknowledgements. To Oscar Flores Villela, Kraig Adler, Hobart M. Smith, James Hanken, Armando Luis Martínez, Wendy L. Hodges, Santos Gerardo Pérez Ramos and Alfonso N. García Aldrete whom, whithout their help, this paper would have been much more difficult to prepare. We are indebted to the following persons for giving us access to their holdings: William M. Duellman, Carl S. Lieb, Robert G. Webb, Roy W. McDiarmid, Jonathan A. Campbell, Greg Schneider, Deborah A. Bakken, David B. Wake, Michael E. Retzer, James R. Dixon, Begoña Arrizabalaga, Ernest A. Linner, David L. Auth, W. Auffenberg, George R. Zug, Wilmer W. Tanner, Alan Resetar, Heather Stein, Rosanne Humphrey, Hobart M. Smith, Kraig Adler, Ticul Alvarez, Oscar Flores Villela, Adrián Nieto Montes de Oca, and two anonymous reviewers. We are also grateful to the people that contributed to the knowledge of the Guerrero herpetofauna. To K. Adler, O. Flores Villela and W. L. Hodges for reading a first draft of this manuscript. Special thanks to "Tet" for translating the paper into English; and to L. Alcocer de Figueroa for financial support.

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Recibido: 14.IX.1999 Aceptado: 22.X.1999

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Appendix 1. Collection localities in Guerrero

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Northern range (NR)	Rio Balsas basin (RBB)	Sierra Madre del Sur (SMS)	Pacifico coastal plain (PCP)
13= Ixcateopan	2= Chichihualco	1=Huitziltepec	10=Pozquelite
	6=Coyahualco	3=Zoquiapan	11=Cumbres de Llano Largo
	7=Villa Madero	4= La Compuerta de Tlaciapa	18= Las Lechugas
	9=Arroyo Largo	5=Xochapa	20=Tierra Blanca
	12=Tlalcozotitlán	8=Chipícuaro	21=Punta Maldonado
	17=Xochipala	14=Filo de Caballo	22=Acapulco
	26=Chaucingo	15=La Escalera	25=El Limón
	32=Qurirícuaro	16= El Asoleadero del Balsamar	42=Jolotichán
	33=El Naranjo	19=Pico del Águila	44=Papanoa
	34=San Jerónimo	23=Puerto del Bálsamo	48= Laguna de San Valiente
	35=Las Juntas de Cujarán	24=Los Ciruelos	52= Barrio Viejo
	38=Cosausi	27=La Palma	53=Ixtapa
	43=Acatempan	28=Cerro Teotepec	54=Isla Ixtapa
	49=Tehuixtla	29=Toro Muerto	55 = Zihuatanejo
	50=Zacatlán	30=Yerbasanta	56=Petatlán
	62=Grutas de Cacahuamilpa	31=Cniz de Ocote	60=Barra Potosí
	64=Los Sauces	36=Crucero del Carrizal de Bravo	61=Cayaquitos
	70 = Mezcala	37 = Barranca del Tío Chico Reyes	63=Las Mesas
	72=Iguala	39=Casa de Teja	65=Puerto Marqués
	75=Cañón del Zopilote	40=Jalapa	69=Los Cajeles
	81 = Teloloapan	41=El Puerto	71 = Tecpan de Galena
	84=Tilzapotla, Morelos	45=Ayotoxtla	73=San Marcos
	85=Bejucos, México	46=Acatlán	74=La Unión
		47=Amojileca	78=Plan de los Amates
		51=Tlatlauquitepec	79 = Km 67.5, Rd. Méx 95
		58=Cacatula	80 = EI 40
		59=Acatatlaxco	82=Ometepec
		66=Acahuizotla	83 = Tlacoachistlahuaca
		67=Agua de Obispo	86=Isla Roqueta
		68=Mazatlán	
		76=Xomilcotitlán	
		77=San Roque	
		-	